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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,670		10/10/2001	James E, Sealey II	23441B	9294
28624	7590	09/16/2003			
— —		R COMPANY	EXAMINER		
P.O. BOX	9777	ROPERTY DEPT., C	ALVO. MARC S		
FEDERAL WAY, WA 98063				ART UNIT	PAPER NUMBER
				1731	
				DATE MATERIA 00/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Steve Alvo		Application No.	Applicant(s)					
Stave Alvo The MAILING DATE of this communication appears on the cover sheet with the correspondence address- Period for Reptly A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be vailable under the provides at 32 CPR 1.15(e). In so event, nowever, may a repty be timely filed Extensions of time may be vailable under the provides at 32 CPR 1.15(e). In so event, nowever, may a repty be timely filed Extensions of time may be vailable under the provides at 32 CPR 1.15(e), in so event, nowever, may a repty be timely filed Extensions for repty specified above is less than thiny (30) days, a repty within the studiency inhumination of the maining date of this communication, event the shall be the maining date of this communication, even the shall be the maining date of this communication, even if the shall be considered timely. 1 This pacified for repty specified above is less than thiny (30) days, a repty which the shallow provided in the maining date of this communication, even if the shall be considered timely. 1 No provide for repty specified above is less than thiny (30) days will be considered timely. 1 No provide for repty specified above is less than thiny (30) days will be considered timely. 1 No provide for repty specified above is less than thiny (30) days will be considered timely. 1 No provide for repty specified above is less than thiny (30) days will be considered timely. 1 This action is FINAL. 2 Disposition of the shall be added to the communication, even if the specified days will be considered timely. 1 This action is FINAL. 2 Disposition of Claims 4) Claim(s) FINAL. 2 Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4) Claim(s) 1-11 is/are pending in the applic		09/975,670	SEALEY ET AL.					
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1) Responsive to communication(s) filed on 16 June 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are. al accepted or bloelected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: al approved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). al All bloens of the priority documents have been received. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a The translation of the foreign language provisional application has been received.	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 							
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Attachment(s)								
	Attachment(s)	,, □ , , , ₋	(PTO 440) P					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) 🔲 Notice of Informa						

Application/Control Number: 09/975,670

Art Unit: 1731

It is noted that the instant claims have an effective filing date of May 18, 2000 which is the date that the term "alkaline pulp comprising cellulose and at least 7% hemicellulose under alkaline conditions with an amount of oxidant sufficient to reduce the average degree of polymerization of the cellulose" was first disclosed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over GANNON et al (6,042,769) in view of WO 99/16960 and SAMUELSON et al (5,985,097) with or without LUO et al (6,210,801).

Gannon et al fairly disclose a process for making lyocell fibers comprising the steps of:

(a) contacting an alkaline pulp comprising cellulose and hemicellulose under alkaline condition with an amount of oxidant (hydrogen peroxide or ozone) sufficient to reduce the average degree of polymerization of the cellulose to the range of from about 200 to about 1100 and (b) forming the fibers from the pulp treated in accordance with step (a) (see cols. 2-6). Gannon et al teaches the claimed invention except for the limitation of of without substantially reducing the hemicellulose content of the pulp or substantially increasing the copper number. Claim 10, see GANNON et al column 3, lines 8-10. WO 99/16960 teaches that alkaline pulp, e.g. kraft pulp treated with sodium hydroxide, is particularly useful in the manufacture of lycocell. It would have been prima facie obvious from the teachings of WO 99/16960 to use alkaline kraft pulp as

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the fiber of GANNON et al. SAMUELSON et al teaches that the catalysation of the depolymerization of cellulose and hemicellulose during peroxide bleaching can be controlled by monitoring and controlling the ratio of transition metals and Mg in the pulp (column 4, lines 10-22 and 45-47). It would have been obvious to prevent the degradation of the hemicellulose and cellulose in the cellulosic material of GANNON et al by adding the proper amount of Mg as taught by SAMUELSON et al. Obviously such addition would avoid substantial reduction of the hemicellulose content, which would not be degraded. Since the copper number is directly related to the cellulose degradation, see specification, page 16, lines 8-20, it would have been obvious that preventing cellulose degradation by adding Mg to the pulp during peroxide bleaching as taught by GANNON et al, would prevent an increase in the copper number. It is noted the term "without substantial increasing of the copper number" when read in view of the specification includes increases up to 100%, which is not a preventing of a copper number increase. If necessary, LUO et al teaches decreasing the copper number by treating pulp with sodium borohydride. If necessary, it would have been obvious to prevent an increase in the copper number by treating the lycocell with sodium borohydride to decrease the copper number as taught by LUO et al. The kraft pulp of WO 99/16960 is the same pulp used by Applicant and would have the same hemicellulose content as the instant pulp.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The term "without substantial increasing of the copper number", when read in view of the specification includes <u>increases</u> up to 100%. A doubling of the copper number is a substantial increase in copper number. Thus the term is indefinite.

The argument that GANNON uses a different starting material than the instant process is not convincing as it would have been obvious to use kraft pulp from the teachings of WO 99/16960.

The argument that Applicant is allowed to define terms in the specification is correct. However, the definitions must be within that conventionally used in the art. The art would not recognize a doubling of copper number to be "without substantial increasing".

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Any inquiry concerning this communication or earlier communications from the **primary** examiner should be directed to Steve Alvo whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Steve Griffin, can be reached on 703-308-1164.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is **703-308-0661**.

MSA 9/4/03

STEVE ALVO
PRIMARY EXAMINER
ART UNIT 1731